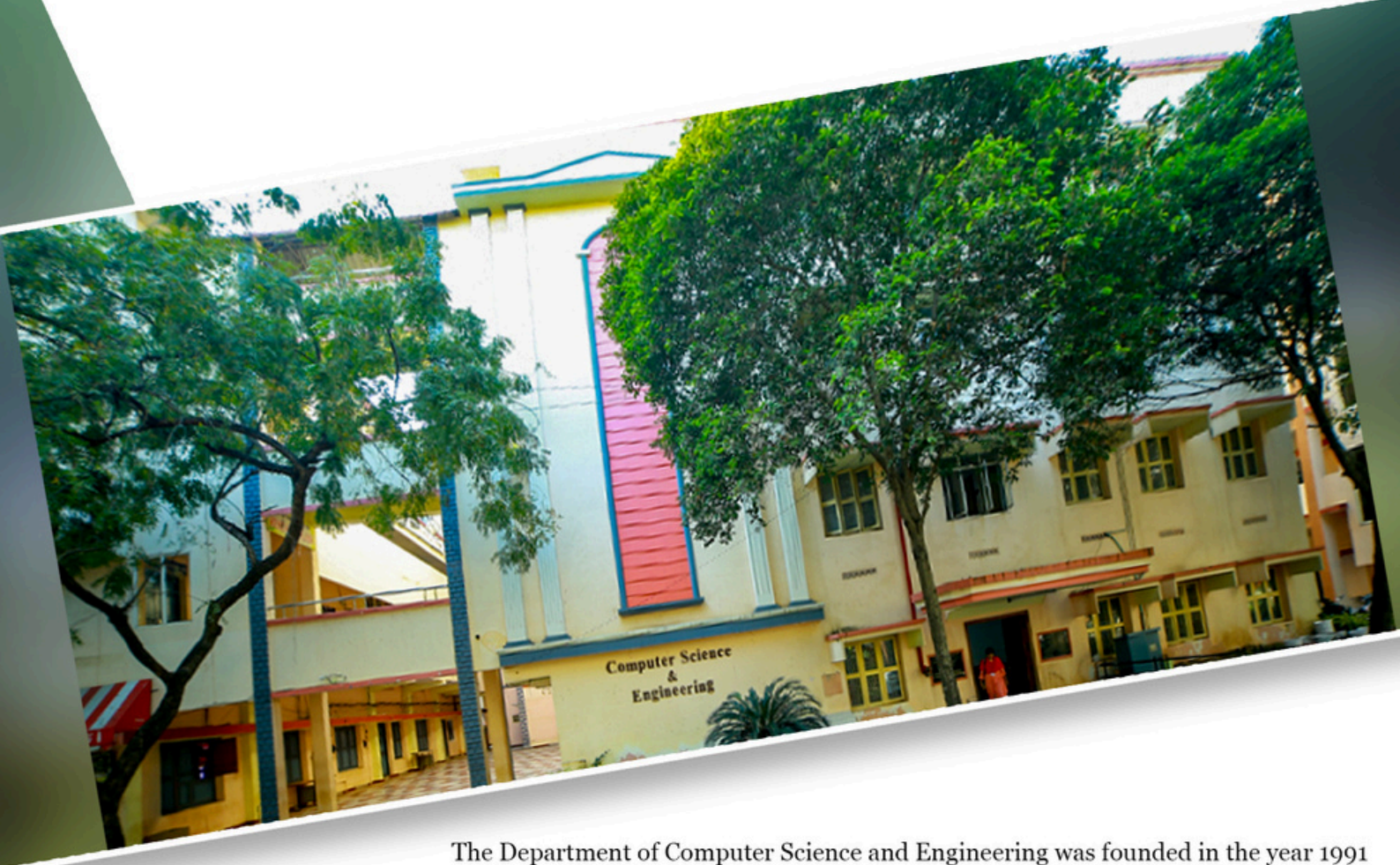# S R K R ENGINEERING COLLEGE
(AUTONOMOUS)

COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering was founded in the year 1991 by people who had a vision. This vision was how Computer Science and Engineering would fit into the unique spirit of S R K R Engineering college, an institution oriented to an unusual degree around under graduate education and close interdepartmental collaboration. One of the strengths of the department is well qualified and well experienced faculty. Presently having 3 Professors and 4 Associate Professors with 8 Ph.D., degrees and the Professors and Associate Professors have an average experience of 20 years, Assistant Professors having M.Tech., degrees with an average experience of 9 years. All the faculty are very much involved in research activity and doing research projects funded by DST, UGC, AICTE etc

A Note from Head of the Department

The Department of Computer Science and Engineering was founded in the year 1991 by people who had a vision. This vision was how Computer Science and Engineering would fit into the unique spirit of SRKR Engineering college, an institution oriented to an unusual degree around under graduate education and close interdepartmental collaboration. One of the strengths of the department is well qualified and well experienced faculty. Presently having 3 Professors and 4 Associate Professors with 8 Ph.D., degrees and the Professors and Associate Professors have an average experience of 20 years, Assistant Professors having M.Tech., degrees with an average experience of 9 years. All the faculty are very much involved in research activity and doing research projects funded by DST, UGC, AICTE etc

FDPS CONDUCTED

A five day faculty development program was
conducted on "Mobile application Development using Kotlin"
from 28-december-2023 to 07-january-2024

ICAAAI -2023

A Three Day International Conference on Algorithms in Advanced Artificial Intellegence was held on 22nd,23rd & 24th December 2023 by Department of CSE with publication partner - Taylor & Francis

ACE ACTIVITIES

Ace conducted a career guidence event - "Growth Expo" for
2nd years which covers basics of domains and industry on
24th august 2024.

Ace conducted "Freshers Day" Event for newly joined 1st year
students which includes a oreintation program and registration
desk for them on 11th september 2023

Ace conducted a coding event for 1st years based on C Programing
named AS - A "C" EVENT dated on 14TH October 2024

ACE conducted an event exclusively for 1st years, named
"Newbies," dated on 10th and 11th November 2024.

ACE ACTIVITIES

ACE conducted a prestigious event for 2nd years and 3rd years, which covered all the concepts of Machine Learning, named "ML Connect," dated on 25 and 26 November 2023.

FDP'S ATTENDED

Workshop/FDP Name	Faculty Members	Conducted By	Level	Schedule	Duration
5 Days Online International FDP on Data Analyst	R. Leela Jyothi, L. Padma, G. Bhanu Priyanka, S. Suryanarayana Raju, M. Jeevana Sujitha, B.N.V. Narasimha Raju, P. Bharat Siva Varma, V. Anjani Kranthi, P. Saroja, Dr. G.N.V.G. Sirisha	APSSDC	International	19-06-2023 to 23-06-2023	5 days
Introduction to Machine Learning (NPTEL-AICTE)	Hemalatha Dendukuri	IIT-Madras	National	19-06-2023 to 22-09-2023	8 weeks
Data Science for Engineers (NPTEL-AICTE)	Guduri Padma Rao	IIT-Madras	National	01-07-2023 to 01-09-2023	8 weeks
Natural Language Processing (NPTEL-AICTE)	D.N.S.B.Kavitha	IIT-Kharagpur	National	01-07-2023 to 01-10-2023	12 weeks
30 Hours International FDP on Deep Learning for NLP and Computer Vision	Dr. K. Aruna Kumari	CBIT, ExcelR	International	10-07-2023 to 28-07-2023	30 hours
Exploring Computational Intelligence	S. Suresh Kumar	VIT-AP University	National	16-07-2023 to 20-07-2023	5 days
One Week FDP on Societal Applications of Machine Learning	R. Shiva Shankar, Chitri Rami Naidu, Dr. G.N.V.G. Sirisha, K. Durga Bhavani, R. Leela Jyothi	Shri Vishnu Engineering College	National	24-07-2023 to 28-07-2023	5 days
30 Days Masterclass on Data Analytics	S. Suryanarayana Raju, B. N.V. Narasimha Raju	Pantech E-learning	National	26-07-2023 to 26-08-2023	30 days
One Week Online International Workshop on Introduction to Machine Learning and Deep Learning (Hands-on)	J.V. Rama Kumar	JNTUV	International	31-07-2023 to 05-08-2023	1 week
Citizen Data Science Using Python Certification	Dr. D.N.S.B.Kavitha, Sindhuri Suseela, Dr. G.N.V.G. Sirisha	Infosys Springboard	National	10-08-2023 to 10-09-2023	30 days
NLP and ChatGPT Applications	M.V.V.S. Subrahmanyam	SECAB Institute of Engineering & Technology	National	14-08-2023 to 19-08-2023	5 days

FDP'S ATTENDED

Workshop/FDP Name	Faculty Members	Conducted By	Level	Schedule	Duration
One Week FDP on Cloud Infrastructure (AWS)	V.V. Sivaramaraju, P. Neelima, K. Sravani, V. Priyadarshini, P. Saroja, Doddi Srikar, Dr. Ravi Kiran Varma, B.N.V. Narasimha Raju, M. Jeevana Sujitha, V. Anjani Kranthi, S. Suryanarayana Raju, Dilip Kumar Vegesna, P. Bharat Siva Varma, K. Durga Bhavani	JNTUK, AICTE, SRKR College	National	21-08-2023 to 25-08-2023	5 days
Principles of Generative AI Certification	Dr. D.N.S.B.Kavitha, Sindhuri Suseela, Dr. G.N.V.G. Sirisha	Infosys Springboard	National	21-08-2023 to 29-09-2023	30 days
Applied Generative AI Certification	Dr. D.N.S.B.Kavitha	Infosys Springboard	National	21-08-2023 to 29-09-2023	30 days
FDP on Microsoft Azure AI Engineer Associate	Dr. K. Aruna Kumari	ICT Academy	National	28-08-2023 to 01-09-2023	5 days
Inculcating Universal Human Values in Technical Education	Tammineni Rama Tulasi, M.V.V.S. Subrahmanyam, L. Padma, Guduri Padma Rao, J.V. Rama Kumar, R. Leela Jyothi, G. Bhanu Priyanka, D. Srikar	AICTE, SRKR College	National	31-08-2023 to 02-09-2023	3 days
10 Hours FDP on Setting Goals and Managing Time	D. Ravi Babu	ICT Academy	National	04-09-2023 to 09-09-2023	10 hours
Faculty Development Program on Salesforce Platform Developer 1	S. Suryanarayana Raju, B. N.V. Narasimha Raju	ICT Academy	National	04-09-2023 to 09-09-2023	15 hours
Faculty Development Program on Salesforce Administrator	S. Suryanarayana Raju, B.N.V. Narasimha Raju	ICT Academy	National	11-09-2023 to 15-09-2023	15 hours
15 Hours Live Training Program on ChatGPT and Generative AI	A. Neelima, Ch. Suma, G. Bhanu Priyanka, L. Padma	EXCELR	National	11-09-2023 to 19-09-2023	15 hours
2 Day Workshop on Computer Vision	V. Anjani Kranthi, R. Siva Shankar	KLE Technological University	National	18-09-2023 to 19-09-2023	

FACULTY PUBLICATIONS

SCOPUS INDEXED JOURNALS

B Radha Krishna & Dr M Srihari Varma "Enhancing User-Level Security: Performance Analysis Of Machine Learning Algorithms For Dynamic Keystroke Analysis" Journal of Theoretical and Applied Information Technology, Vol. 101, No. 13, July 2023

Ch Vinod Varma, P Jahnavi, K Vijaya Naga Valli, K Monica Sowmya, S Suryanarayanaraju & M Lahari "Sentiment Classification Analysis Of Tweets On Twitter Data Using Machine Learning Algorithm" European Chemical Bulletin, Vol. 12, Issue 8, July 2023 DOI: 10.48047/ecb/2023.12.si8.480

Mrs. R. Leela Jyothi, Dr. Ch. Rajendra Babu & M. Vamsi Priya "A Data Enhancement Approach to Indication of Health Status Using Linear Regression and Random Forest" European Chemical Bulletin, Vol. 12, Issue 8, August 2023 DOI: 10.31838/ecb/2023.12.8.810

M Venkateswara Rao, Y. Sreeraman, Srihari Varma Mantena, Venkateswarlu Gundu, D. Roja & Ramesh Vatambeti "Brinjal Crop Yield Prediction Using Shuffled Shepherd Optimization Algorithm Based ACNN-OBDLSTM Model in Smart Agriculture"Journal of Integrated Science and Technology, Vol. 12, No. 1, August 2023

M. Jeevana Sujitha & Dr. Kodukula Subrahmanyam"Quality Analysis of Software Applications Using Software Reliability Growth Models and Deep Learning Models"International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 11, Issue 8, June 2023 DOI: 10.17762/ijritcc.v11i8s.7226

Shiva Shankar Reddy, Vetukuri Venkata Siva Rama Raju, Chigurupati Ravi Swaroop & Neelima Pilli"Evaluation of Deep Learning Models for Melanoma Image Classification" *International Journal of Public Health Science (IJPHS), Vol.

S. Rama Krishna, Chittibabu Ravela, Srihari Varma Mantena, Mohammad Sirajuddin, and G. Joel Sunny Deol authored Deep Learning-Based Robust Hybrid Approaches for Brain Tumor Classification in Magnetic Resonance Images, published in the Journal of The Institution of Engineers (India) in September 2023, DOI: 10.1007/s40031-023-00916-w.

S. Rama Krishna, Chittibabu Ravela, Srihari Varma Mantena, Mohammad Sirajuddin, and G. Joel Sunny Deol authored Deep Learning-Based Robust Hybrid Approaches for Brain Tumor Classification in Magnetic Resonance Images, published in the Journal of The Institution of Engineers (India) in September 2023, DOI: 10.1007/s40031-023-00916-w.

WEB OF SCIENCE (SCIE/SCI/ESCI) JOURNALS

B. N. Jagadesh, M. Ganesh Karthik, D. Siri, S. K. Khaja Shareef, Srihari Varma Mantena, and Ramesh Vatambeti presented Segmentation Using the IC2T Model and Classification of Diabetic Retinopathy Using the Rock Hyrax Swarm-Based Coordination Attention Mechanism in IEEE Access, Volume 11, November 2023, DOI: 10.1109/ACCESS.2023.3330436.

Phalguna Krishna E S, Venkata Nagaraju Thatha, Gowtham Mamidisetti, Srihari Varma Mantena, Phanikanth Chintamaneni, and Ramesh Vatambeti published Hybrid Deep Learning Model with Enhanced Sunflower Optimization for Flood and Earthquake Detection in Heliyon, Volume 9, Issue 10, October 2023, DOI: 10.1016/j.heliyon.2023.e21172.
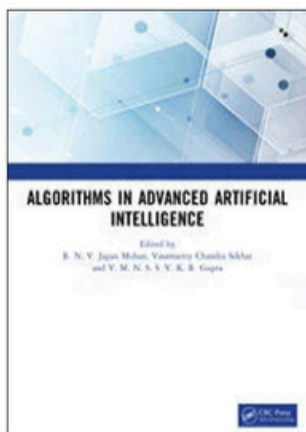
FACULTY PUBLICATIONS

INTERNATINAL CONFERENCES

T. Srinivasarao, Bh. Priyanka, Pamula Udayaraju, T. V. Narayana, Ch. Vinod Varma, and L. V. Srinivas presented their conference paper An Integrated Learning Approach for Detecting Plant Diseases at the International Conference on Intelligent Systems and Sustainable Computing, published in Smart Innovation, Systems and Technologies, Volume 363, October 2023, DOI: 10.1007/978-981-99-4717-1_42.

Pamula Udayaraju, G. Prasanth Kumar, K. Durga Bhavani, Ch. Vinod Varma, T. V. Narayana, and P. Jahnavi presented Secured Communication Strategy for Vehicular Ad-Hoc Network at the same conference, also in Smart Innovation, Systems and Technologies, Volume 363, October 2023, DOI: 10.1007/978-981-99-4717-1_38.

P.D.S.S. Lakshmi Kumari, Gidugu Srinija Sivasatya Ramacharanteja, S. Suresh Kumar, Gorrela Bhuvana Sri, Gottumukkala Sai Naga Jyotsna, and Aki Hari Keerthi Naga Safalya presented Developing an Automated System for Pothole Detection and Management Using Deep Learning at the International Conference on Advanced Communication and Intelligent Systems, published in Communications in Computer and Information Science, Volume 1921, October 2023, DOI: 10.1007/978-3-031-45124-9_2.

BOOKS PUBLISHED

Author : R. N. V. Jagan Mohan, Vasamsetty Chandra Sekhar, V. M. N. S. S. V. K. R. Gupta

Title : Algorithms in Advanced Artificial Intelligence

Publisher : Taylor & Francis

Year : 2023

VISION

To envision a diverse, stimulating, continually improving academic and research environment to fulfill the needs of the society and to mould students as socially responsible and competent professionals in the field of computer science and engineering.

MISSION

To provide a strong theoretical and practical background across the computer science and engineering discipline with an emphasis on software development.

To impart modern technologies with industrial, academic and research collaboration.

To inculcate professional behavior, strong ethical values, leadership abilities and impart the skills necessary to continue education for professional growth.

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